

M/035/0009



Leslie Heppler <lheppler@utah.gov>

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Div. of Oil, Gas & Mining

December Monthly Clay Hollow Cleanup Update

1 message

Heaton, Trevor (RTKC) <Trevor.Heaton@riotinto.com>

Tue, Dec 15, 2015 at 4:56 PM

To: 'Paul Baker <PAULBAKER@utah.gov>

Cc: "Leslie Heppler (LHEPPLER@utah.gov)" <LHEPPLER@utah.gov>, "dhall@utah.gov" <dhall@utah.gov>, "bhamos@utah.gov" <bhamos@utah.gov>, "Douglas Bacon (DBACON@utah.gov)" <DBACON@utah.gov>, "rstonestreet@utah.gov" <rstonestreet@utah.gov>, "dverbica@utah.gov" <dverbica@utah.gov>, "Fiedler, Kerri (Fiedler.Kerri@epa.gov)" <Fiedler.Kerri@epa.gov>, "Wendell Rigby (wendellr@wjordan.com)" <wendellr@wjordan.com>, "jhoggan@slco.org" <jhoggan@slco.org>, Mike Bradley <mbradley@utah.gov>

Mr. Baker

Attached are the monthly update report and inspection sheets associated with the Clay Hollow Cleanup Project (11/15-12/15). No changes have occurred since the previous monthly report. The Clay Hollow Post-Removal Report was approved by DOGM in early August, however the review and approval by other participating agencies are still in process.

Attached to this email are the Clay Hollow Cleanup Tracking Sheet and the associated daily inspection logs. If you have any questions feel free to contact me.

Regards,

Trevor Heaton, P.E.

Senior Project Engineer

Rio Tinto Kennecott

4700 Daybreak Parkway, South Jordan UT 84095

T: (801) 563-1514 M: (801) 557-3192 F: (801) 569-6585

trevor.heaton@riotinto.com www.riotintokennecott.com

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Clay Hollow - December.pdf
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Table 1 Cleanup Response Activities

ID	Work Area	Activity	Planned Target		Status	Comments
			Start	Finish		
1A	Segment 1	Additional sampling on the West Jordan property	4/1/2014	5/6/2014	Complete	The distribution of mine waste sediment shall be based on visual observation, XRF analysis of soils for arsenic and lead, and laboratory analysis on select confirmation samples for arsenic and lead.
1B	Segment 1	Draft a Characterization/Removal work plan	4/1/2014	4/17/2014	Complete	Plan provided as dictated in the DOGM Division Directive
1C	Segment 1	Site visit with DWQ, DOGM and DERR	4/9/2014			Allow regulators an opportunity to see the site in person and ask questions.
1D	Segment 1	Regulatory review of Cleanup Plan - Segment 1	4/18/2014	4/30/2014	Complete	Submission of joint review between the three agencies
1E	Segment 1	Obtain comments from DOGM, DWQ and DERR	4/22/2014	4/30/2014	Complete	Obtain comments from the agencies on Cleanup plan
1F	Segment 1	Revise work plan and address Agencies comments	4/22/2014	5/14/2014	Complete	Resubmittal for joint review between the three agencies
1G	Segment 1	Obtain Regulatory approval of Cleanup Plan - Segment 1	4/21/2014	7/3/2014	Complete	Regulatory approval of recommended action levels for arsenic, excavation and removal of material, transportation of material, final deposition of removed material, and restoration of the drainage.
2A	Segment 1	Increase desilting capacity at the Kennecott property line	7/7/2014	7/8/2014	Complete	Initial step is to prevent additional mine waste sediment from migrating off Rio Tinto property.
2B	Segment 1	Remove sediments from - Segment 1	7/9/2014	7/15/2014	Complete	The removal of mine waste sediment will commence just downstream of the desilting basins that are to be constructed. From this point the removal will continue downstream to the property line, thus preventing further migration of mine waste sediment off of Rio Tinto property.
1F	Segments 2-4	Submission of Cleanup plan for - Segments 2 - 4	7/18/2014	11/20/2014	Complete	Plan provided as dictated in the DOGM Division Directive.
2C	Segment 1	Reconstruct rippedrap channel in - Segment 1	9/5/2014	9/23/2014	Complete	Replacement of rippedrap material will be further protect the stream bottom from erosion and restore the site to its previous condition.
1G	Segments 2-4	Obtain Regulatory approval of work plan	12/19/2014	12/19/2014	Complete	Regulatory approval of recommended action levels for arsenic, excavation and removal of material, transportation of material, final deposition of removed material, and restoration of the drainage.
2D	Segment 1	Reseed impacted areas in - Segment 1	9/23/2014	9/23/2014	Complete	Revegetating immediately downstream of the desilting basins will minimize offsite migration of fines during a storm event.
3A	Segments 2-4	Remove sediments from - Segments 2-4	7/21/2014	9/11/2014	Complete	Removal of sediments found upstream of the desilting basins will minimize the loading and the maintenance of the basins.
3B	Segments 2-4	Reconstruct drainage channel - Segments 2-4	7/28/2014	11/26/2014	Complete	Regrading of the disturbed area will allow for natural water flow and will be done concurrent with removal.
3C	Segments 2-4	Reseed impacted areas in - Segments 2-4	11/18/2014	11/26/2014	Complete	Revegetation of the drainage found upstream of the desilting basins will minimize the loading and the maintenance of the basins.
4A	Segments 1-4	Submit post removal report	11/27/2014	2/6/2015	Complete	Detailed report giving removal quantities as well as the test results of the cleaned surface. - This work is in process and progressing on time.
4B	Segments 1-4	Obtain Regulatory approval of post removal report	2/6/2015		In Process	Regulatory approval of the post removal report
4C	Segments 1-4	Inspect leach pads and stormwater controls daily until permanent controls are installed	4/1/2014		In Process	Includes daily inspection of all five leach pads and the associated stormwater controls until approval is obtained to decrease the frequency

Projected dates

* Monthly project updates will be provided on the 15th of each month, until the cleanup is complete. If Barneys deviates from the attached schedule, Barneys and Agencies will discuss any needed action at the agencies request.

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Month: **December 2015**

Date	BC1	BC2	BC3	BC4	BC5	North Perimeter	South Perimeter	East/B&G Perimeter	Inspector	Comments/Corrective Actions
1	1	1	1	1	1	1	1	1	TMN	Snow covered roads, site is stable.
2	1	1	1	1	1	1	1	1	TMN	Snow covered roads, site is stable
3	1	1	1	1	1	1	1	1	TMN	Snow is melting, site is stable
4	1	1	1	1	1	1	1	1	TMN	wet to dry roads. Site is stable
5	1	1	1	1	1	1	1	1	TMN	Weekend, no inspection
6	1	1	1	1	1	1	1	1	TMN	Weekend, no inspection
7	1	1	1	1	1	1	1	1	TMN	Site stable.
8	1	1	1	1	1	1	1	1	TMN	Site stable.
9	1	1	1	1	1	1	1	1	TMN	Site stable
10	1	1	1	1	1	1	1	1	TMN	Site stable
11	1	1	1	1	1	1	1	1	TMN	Light snow - site stable
12	1	1	1	1	1	1	1	1	TMN	Weekend No inspection
13	1	1	1	1	1	1	1	1	TMN	Weekend No inspection
14	1	1	1	1	1	1	1	1	TMN	Snow covered site
15	1	1	1	1	1	1	1	1	TMN	Snow packed roads.
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

Heap Leach Pads (BC1 thru BC5):

- 1 No heap material or liquids flowing off the lined pad
- 2 Heap material flowing off the lined pad
- 3 Liquids flowing off the lined pad

Perimeter Drainage:

- 1 Perimeter drainage in good order and containment of storm water behind permitted dams
- 2 Uncontained perimeter drainage
- 3 Moderate to significant erosion to perimeters

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Barneys Canyon Heap Pad and Drainage Inspection

Month: **November 2015**

Date	BC1	BC2	BC3	BC4	BC5	North Perimeter	South Perimeter	East/Back Perimeter	Inspector	Comments/Corrective Actions
1	-	-	-	-	-	-	-	-	-	Weekend
2	/	/	/	/	/	/	/	/	DJ	STABLE
3	/	/	/	/	/	/	/	/	DJ	STABLE
4	/	/	/	/	/	/	/	/	DJ	STABLE (SNOW)
5	/	/	/	/	/	/	/	/	DJ	STABLE (SNOW)
6	/	/	/	/	/	/	/	/	DJ	STABLE
7	-	-	-	-	-	-	-	-	-	Weekend
8	-	-	-	-	-	-	-	-	-	Weekend
9	/	/	/	/	/	/	/	/	DJ	STABLE (SNOW)
10	/	/	/	/	/	/	/	/	DJ	STABLE (SNOW)
11	/	/	/	/	/	/	/	/	DJ	STABLE
12	/	/	/	/	/	/	/	/	DJ	STABLE
13	/	/	/	/	/	/	/	/	DJ	STABLE
14	-	-	-	-	-	-	-	-	-	Weekend
15	-	-	-	-	-	-	-	-	-	Weekend
16	/	/	/	/	/	/	/	/	TMN	light rain/snow mix. site stable
17	/	/	/	/	/	/	/	/	TMN	stable
18	/	/	/	/	/	/	/	/	TMN	stable
19	/	/	/	/	/	/	/	/	TMN	stable
20	/	/	/	/	/	/	/	/	TMN	Roads wet. site stable
21	-	-	-	-	-	-	-	-	-	Weekend
22	-	-	-	-	-	-	-	-	-	Weekend
23	/	/	/	/	/	/	/	/	TMN	stable
24	/	/	/	/	/	/	/	/	TMN	stable
25	/	/	/	/	/	/	/	/	TMN	stable
26	-	-	-	-	-	-	-	-	-	Holiday
27	-	-	-	-	-	-	-	-	-	Holiday
28	-	-	-	-	-	-	-	-	-	Weekend
29	-	-	-	-	-	-	-	-	-	Weekend
30	/	/	/	/	/	/	/	/	TMN	snow cover. stable
31	/	/	/	/	/	/	/	/	TMN	

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Perimeter Drainage:

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- 2 Uncontained perimeter drainage
- 3 Moderate to significant erosion to perimeters